



NEWSLINE

Published weekly for employees of Lawrence Livermore National Laboratory

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JOSEPH MARTINEZ/TID

Bill Dunlop of NAI, far right, shows a handheld cargo container detector to Lyanne Melendez of KGO Channel 7 during a press conference Thursday at the Lab.

Radiation detectors tested

By Stephen Wampler

NEWSLINE STAFF WRITER

Commercial instruments have been tested and new technologies are under development by Laboratory researchers to detect nuclear materials inside cargo containers.

The work, funded by the National Nuclear Security Administration, is designed to help

prevent the smuggling of nuclear materials inside the millions of cargo containers that annually enter the United States.

During three weeks in June, Livermore researchers tested 19 commercially available handheld instruments that are being used or might be used by various government agen-

See **CARGO**, page 8

Anastasio to provide update on Lab issues next week during special televised talk

Director Michael Anastasio will update employees during a special presentation at 10 a.m. Friday, Aug. 23. All employees are invited to attend the talk in the Bldg. 123 or watch it live on Lab TV Channel 2.

Seating in the auditorium is on a first-come, first-served basis.

Among the topics Anastasio will discuss are his recent meetings with Laboratory employees in each directorate. As he mentioned in his introductory talk in July, Anastasio announced he would meet with Lab programs, directorates and employee groups, then report on those discussions.

Lab researchers brief Chu on Yucca Mountain work

Margaret Chu, the newly appointed director of DOE's Office of Civilian Radioactive Waste Management (OCRWM), came to the Lab Tuesday and got a first-hand glimpse at the research Livermore scientists are doing for the Yucca Mountain Project.

Chu is the senior DOE manager in charge of the Yucca Mountain Project, the geological radioactive-waste repository for the permanent disposal of radioactive waste.

The Lab is working with the Office of Civilian Radioactive Waste Management) on the Yucca

See **CHU**, page 8

Hal Graboske appointed acting deputy director for Science and Technology

Hal Graboske will assume the role of acting deputy director for Science and Technology, Director Michael Anastasio announced in an Administrative Memo issued Tuesday.

Graboske takes over the role from Jeff Wadsworth, who has assumed his new position at Batelle.

"As you know, this position is a key one for our Laboratory," Anastasio said in the memo. "Hal will be responsible for oversight of our scientific and technical programs and for the quality of science and technology Laboratory-wide.



Hal Graboske

See **GRABOSKE**, page 8

Contained briefings

Members of the White House Office of Science and Technology Policy came to the Lab this week for briefings on the Lab's work in counterterrorism and national security. From left are Harry Vantine of NAI; Carl Edgar Hildebrand, policy analyst for Homeland and National Security; William Jeffrey, deputy to the assistant director for Homeland and National Security; Shana Dale, chief of staff; Arden Dougan and Bill Dunlop, both of NAI.



JOSEPH MARTINEZ/TID



1984:
InNOVation

— Page 3



Comp in
retrospect

— Page 5



Wadsworth
moves on

— Page 5



LAB COMMUNITY NEWS

Weekly Calendar

Technical Meeting Calendar, page 4

Tuesday
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The Benefits Office is offering a workshop for those who want to become educated on the fundamental principals of investing.

The next session of **"Basic Investment Planning and Savings"** will be held at 8:30 a.m. - 11:30 a.m. in Bldg. 571, conference room 2301. The workshop will provide participants with the necessary information to assess the risks and potential rewards associated with a wide range of investment choices. Cost is \$45. Pre-registration is required. You can register by visiting the Benefits Office Website at www.llnl.gov/jobs/benefits and click on Seminars/Workshops or call the Benefits Office at 2-9957.

Wednesday
21

A representative from **Fidelity Investments** will be on-site to meet with employees today and Thursday. Fidelity Investments are available to UC's 403(b) participants in addition to the UC-managed investment funds. To make an appointment, call Fidelity at 1-800-642-7131, and be sure to specify you are an LLNL employee.

A talk on **"Using the Internet, Email Client**

Thursday
22

Considerations, Protecting Yourself from SPAM, and Protecting Yourself from Email Viruses" will be offered 1-3 p.m. in

Bldg. 123A, conference room. Tips also to be covered include how to make the computing environment at home and at work safe from the "bad guys." Contact: Donna McCown, 2-5255.

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All Laboratory employees are invited to attend as more than **30 Chemistry & Material Science postdocs** present results from their research projects from 9 a.m. to 4 p.m. in Bldg. 235, room 1090. A complete program schedule is available at http://cmsonly.llnl.gov/newnews_stuff/CMS_PD_symposium.doc. Contact: Brian Wirth, 4-9822.

The Amigos Unidos Hispanic Networking Group is offering an information session for



its **conversational Spanish classes** on Thursday, Aug. 29, at noon in Bldg. 415, room 239. Fall classes are currently scheduled

to begin the week of Sept. 2. Contact: Ken Marsh, 2-2488.

...

LLNSA is sponsoring a "blended drive"

**Broadcast
Schedule**

Lab TV

Lab TV will air a recent segment of the Lab's community TV show, **Technology Today**. "LLNL Computer Museum Tour," will air Monday through Friday, at 10 a.m., 2 p.m. and 4 p.m. on channel 7

Students present work at SPIE meeting

Karl Schulze, left, and Chris LaFlash, right, are congratulated by Lab employee Alan Frank after receiving certificates at this summer's SPIE meeting. Frank was so impressed with the students' team project for the Tri Valley Science & Engineering Fair earlier this year that he made sure they were invited to SPIE's annual meeting in July to present a paper on their submarine work. Schulze and LaFlash, who were second place finishers in the TVSEF, recently graduated from Foothill High School in Pleasanton. Schulze is headed to Cornell University and LaFlash will be attending Cal Poly San Luis Obispo.



New resource center for ill weapons workers

Nuclear weapons workers or their survivors can get help applying for benefits under a new federal workers' compensation program by contacting the Energy Employees' Occupational Illness Compensation Resource Center at (866) 697-0841.

The Federal Energy Employees Occupational Illness Compensation Program Act became effective July 31, 2001. Conditions covered under this program are radiogenic cancers, beryllium diseases and chronic silicosis.

The act provides for compensation payment of up to \$150,000 and for payment of medical expenses to employees who became ill as a result of their

exposures to radiation, beryllium or silica.

Qualified survivors of a covered employee are also eligible for compensation. An amendment to the law passed by Congress in December 2001 means that adult children are now eligible for compensation if there is no qualified surviving spouse.

For more information about the Energy Employees' Occupational Illness Compensation Program or for assistance in filing a claim, call toll-free (866) 697-0841.

New LLESA group focuses on community service

Here's a chance to get involved in community service and meet people at the Lab. Come to an informational meeting of a new LLESA Community Service Networking Group on Thursday, in the Visitors Center Auditorium from 12:30-1:15 p.m.

The new group plans to affiliate with the National Exchange Club, and to meet twice each month onsite.

The Exchange Club focuses on personal and professional development, building a healthy society and aiding America's communities.

The National Exchange Club was founded in

1911 and provides support and services to nearly 1,000 local Exchange Clubs and members as they progress in personal development and reaching club goals.

The national office endorses specific community programs in four areas of service: Americanism, youth, community service and child abuse prevention.

For more information contact Barry Schrader at 3-3567, Scott Wilson at 3-3125, or Christine Mixan at 2-3138 in Community Relations.

Awareness campaign examines risks of overcooking meat

This summer's Cancer Awareness Campaign continues next week with a talk on the risks of overcooking meat.

LLNL scientist James L. Felton will present "Does Overcooking Meat Pose a Cancer Risk?" on Tuesday at noon in Bldg. 170, room 1091. He will present research that suggests it might be a cancer risk to overcook meat.

The campaign will conclude on Thursday, Aug. 29, with a talk on "Prevention, Health Practices and Good Nutrition for Cancer Survivors" by registered dietitian Victoria Holmes Woolery of Kaiser

Medical Center. Her presentation will be at noon in Bldg. 170, room 1091. She will discuss the role of medical nutrition therapy and intervention for cancer patients.

For more information on the events, contact Mark Costella at 2-8999 or costella2@llnl.gov.

Newsline

Newsline is published weekly by the Internal Communications Department, Public Affairs Office, Lawrence Livermore National Laboratory (LLNL), for Laboratory employees and retirees.

Contacts:

Managing editor: Lynda Seaver, 3-3103

Contributing writers: Don Johnston, 3-4902; Elizabeth Rajs, 4-5806; David Schwoegler, 2-6900; Anne Stark, 2-9799; Steve Wampler, 3-3107; Gordon Yano, 3-3117. For an extended list of Lab beats and contacts, see <http://www.llnl.gov/llnl/06news/NewsMedia/contact.html>

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Diversity leader departing

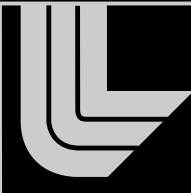
There will be a farewell lunch for Lorie Valle, acting group leader for the Diversity Program office, at 11:30 a.m. on Thursday, at the Willow Tree.

Valle, who has worked at the Lab for 22 years, is headed to ESPN in Connecticut. She has worked in the Affirmative Action & Diversity Program since 1989, leading cultural awareness activities and coordinating the networking groups.

Cost of the lunch is \$18. RSVP by Wednesday to Michele Cardenas at 3-2796.

1952 – 2002

MAKING HISTORY, MAKING A DIFFERENCE



A breakthrough in laser science and technology

This is an ongoing feature highlighting the Lab’s 50-year history. This week we take a look at the year 1984.

Ten times more powerful than its predecessor, Nova became operational in December 1984 as the world’s most powerful laser. Its ten beams produced laser pulses that delivered up to 100 trillion watts of infrared laser power for a billionth of a second.

In 1986, Nova produced the largest laser fusion yield to date — a record 11 trillion fusion neutrons. The following year, Nova compressed a fusion fuel pellet to about 1/30th its original diameter, very close to that needed for high gain (fusion energy exceeding energy input). The laser exceeded its maximum performance specifications in 1989 when Nova generated more than 120 kilojoules of laser energy at its fundamental infrared wavelength in a 2.5-nanosecond pulse. In addition, in 1996, one arm of Nova was reconfigured as a petawatt laser. Record-setting laser shots produced pulses with more than 1300 trillion watts, or 1.3 petawatts, of peak power.

When the United States ceased nuclear testing, Nova became even more important for obtaining data to validate the computer codes used to model nuclear weapons physics. Shut down in 1999, Nova also served as the proving ground for the 192-beam National Ignition Facility.



Nova, the world’s most powerful laser in 1984.

1984

LASER

power

Around the Lab

The Lab's work

Major Laboratory work included magnetic fusion; inertial fusion; isotope separation; computer modeling with a new generation of supercomputers, and biomedical sciences and biotechnology. Nova, the world's largest laser, became operational. Groundwork was laid for the Laboratory's major role in the Human Genome Project.

Around the nation

- Reagan re-elected
- U.S. deploys Tomahawk SLCMs
- Apple Computer releases the Macintosh
- Madonna gets her first hit with "Like a Virgin," and Prince releases his album Purple Rain

Around the world

- AIDS virus found
- Indira Gandhi assassinated
- Bhopal gas leak in India

in other

NEWS

Other news around the Lab, the nation and the world.

For more of the Lab’s rich history, check out the Timeline, located at: <http://www.llnl.gov/timeline/>

Looking for the 50th Anniversary Baby

The Lab Time Capsule Committee is looking for a baby born closest to the Laboratory's 50th anniversary date: Sept. 2, 2002.

The winning baby will receive a gift from Uncle Credit Union and that gift will be buried, along with a copy of the baby's birth certificate, in the Anniversary Time Capsule, to be retrieved 50 years from now!

If you are a Lab employee (mother or father) with a new baby or are expecting a child in the beginning of September, contact Barry Schrader, 3-3567, or schrader2@llnl.gov for more information.

The Time Capsule Burial Ceremony will be held at 4:30 p.m., Sept. 18 outside the Visitor's Center.

Volunteers needed to escort for Community and Family Days

Want to rub elbows with Lab guests? Always dreamed of being a tour guide? Volunteers are needed during the 50th anniversary event week to assist with escorting duty. Escorts are needed for Community Day, Wednesday, Sept. 18, and again during Family Days, Sept. 21 and 22. Volunteers for Community Day and Family Days must be L- or Q-cleared. To volunteer for Community Day, call Scott Wilson, 3-3125 or e-mail wilson101@llnl.gov. For Family Days, call Jan Tweed, 2-4597 or e-mail tweed1@llnl.gov.



NEWS YOU CAN USE

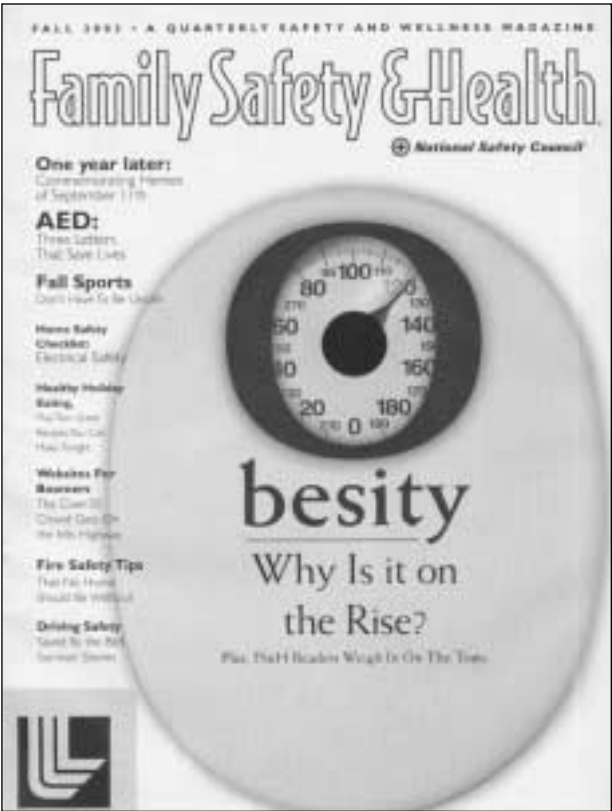
Survey on usefulness of safety magazine

A survey of employees to help evaluate the usefulness of *Family Safety & Health* magazine will be conducted at the Laboratory during the next few weeks. Both paper and electronic versions of the eight-question survey will be available.

The National Safety Council publishes *Family Safety & Health* quarterly. The Laboratory arranged for it to be mailed to employees' homes for the past year as part of the Integrated Safety Management safety awareness program. Content covers on- and off-the-job safety and health and is written for the entire family. The survey is being done in conjunction with the Safety Council.

The purpose of the survey is two-fold. Survey data will help the Laboratory decide whether to continue sending the publication to employees. It will also help the Safety Council plan the magazine's editorial content.

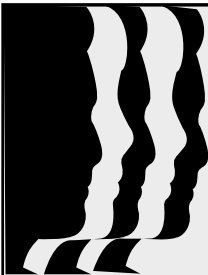
The survey includes seven multiple-choice questions and one that asks for suggestions of topics people would like to see covered. Answering the survey should take no longer than three to four minutes.



The Fall issue of *Family Safety & Health* has been mailed to employee homes.

Employees will have four opportunities to participate, though they should only fill out one survey. A paper questionnaire will be mailed to all employees through the Lab mail system on Aug. 26. To keep responses anonymous, employees will be reminded to either peel off or black out the name label. Also, if people prefer to answer the survey electronically, they will be able to access a form through *NewsOn-Line* on Sept. 4 or 9. These responses will also be anonymous. Finally, *Newsline* will reprint the form in its Sept. 13 issue.

The Fall issue of *Family Safety & Health* was mailed within the past few days and should be in homes during the coming week. This issue, as all past issues, was labeled and handled by the LLNL mailroom. Employee names are not given to the Safety Council. A year's subscription (four issues) of the publication costs \$2.60 per employee.



As a Lab employee. . .

you are responsible for knowing the protective action terminology that may be used in an emergency.

Familiarize yourself with these concepts:

Shelter

The Shelter-In-Place announcement means:

Shelter: Stay inside your building or go inside the nearest building.

Shut: Close doors and windows.

Listen: Listen for further instructions over the emergency paging system or Lab Emergency Radio 1610 AM. Avoid using the telephone unless you have a life-threatening emergency.

Evacuation

The Evacuation announcement means:

Secure classified material in a safe and expedient manner.

Exit the building per your building evacuation plan unless directed otherwise by the emergency announcement.

Report to the designated Assembly Point and wait for further instructions.

Call Emergency Preparedness 4-LLNL

Technical Meeting Calendar

Friday
16

ENERGY & ENVIRONMENT

"Building a Conceptual Groundwater Model for a Coastal Alluvial Aquifer in

Northern Oman Based on Chemistry, Isotopes and Noble Gases," by Constanze E. Weyhenmeyer, Center for Accelerator Mass Spectrometry. 10:30 a.m., Bldg. 543 auditorium. Contact: Camille Vandermeer, 3-2672.

Monday
19

The Sixth IBM Scientific Computing User Group (ScicomP) Meeting, hosted by Lawrence Berkeley National Laboratory. For more information see

<http://www.spscicomp.org/ScicomP6/>. Contacts: Bronis de Supinski, bronis@llnl.gov, or Tom DeBoni, TMDDeBoni@lbl.gov.

Tuesday
20

GEOSCIENCES & ENVIRONMENTAL TECHNOLOGIES

"Advanced Technology for Detection of Contaminants in

Water," by Janet Jensen, Edgewood Chemical Biological Center, Aberdeen Proving Ground.

10:30 a.m., Bldg. 123 (uncleared area). Contact: Nina Rosenberg.

RADIATION DETECTION CENTER

"Flat Panel X-Ray Imager Sensors," by Robert Street, Xerox PARC. 11 a.m., Bldg. 132S, room 1784 (uncleared area). Contact: Christie Shannon, 3-6683, or Greg Schmid, 3-7866.

CHEMISTRY & MATERIALS SCIENCE

The 2002 Chemistry and Materials Science Post-Doctoral Program Symposium. All Lab employees are invited to attend as more than 30 CMS post-docs present results from their research projects. 9 a.m.-4 p.m., Bldg. 235, Gold Room (uncleared area). Contact: Brian Wirth, 4-9822.

INTEGRATED COMPUTING & COMMUNICATIONS

Come see the latest from HP in workstation and server offerings based on the CPU, Itanium2. 9:30 a.m.-noon, Bldg. 361 auditorium. The first presentation will focus on the new technology that provides increased performance and price advantages

today, and strategic advantage for years to come. The second presentation, 10:45 a.m., will address technical issues facing system managers and users in the transition from Solaris to Linux or HP-UX on Itanium2 systems. Contact: Candace Gittins, gittins1@llnl.gov.

P&AT COMPUTER SUPPORT CENTER

"Internet and Email Awareness" Topics: Using the Internet, Email Client Considerations, Protecting Yourself from SPAM, and Protecting Yourself from Email Viruses. Also to be covered will be tips on how to make the computing environment at home and at work safe from the "bad guys." Your home computer is just as susceptible as your computer at work. Don't miss this opportunity to become informed. 1-3 p.m., Bldg. 123A Conference Room. To register contact: Donna McCown, 2-5255 or dmc-cown@llnl.gov.

The deadline for the next Technical Meeting Calendar is noon, Wednesday.

NEWS OF NOTE



Computation Then & Now Day celebrates teamwork

Computation hosted its "Then and Now" day on Wednesday as part of the Lab's 50th anniversary celebration. More than 100 retirees and guests along with many current Computation employees attended the event.

The event included a viewing of the video "Orders of Magnitude" directed by Ross Gaunt and listening to a panel of speakers in the Bldg. 123 auditorium, followed by a reception at the LLNL Computer History Museum in Bldg. 439. The organizers of the event were Bing Young, Sue Wiebe and Peggy Poggio.

Kicking off the panel with an overview of computing history, Dick Watson showed a photo of the 13th century Salisbury Cathedral in England.

Watson said the high performance computing systems pioneered by the Laboratory and the dedicated teamwork that made them possible, inspired "the same sense of awe I had going into the cathedral."

The development of computing at the Laboratory "is really a story of partnership, of people working together, sharing successes as well as disappointments... and making incredible contributions," he said.

Watson led the panel discussion "Computing at LLNL: Past and Future." Panelists included Dieter Fuss, who discussed platforms; John Fletcher, networks; and Harry Nelson, algorithms and applications.

The success of computation can be traced back



JOSEPH MARTINEZ/TID

The Computation Then & Now Day celebration on Wednesday featured a distinguished panel of Lab retirees. Directorate AD Dona Crawford stands between panel members (left to right) Dieter Fuss, Harry Nelson, Dick Watson, and John Fletcher. Watson also moderated the panel, and prepared an overview of 50 years of computing at LLNL.

to the Laboratory's founders, Edward Teller and E.O. Lawrence, Watson said. "At the heart of Computation's success is culture and organization. There was a recognition of the importance of computing right from the beginning.

"The Laboratory's founders embedded that belief by hiring people who shared the same belief. That culture came into the Laboratory and spread," Watson said.

The Laboratory's use of multi-disciplinary teams helped shape the culture of computation, he said, adding that for computation to evolve "you

have to have fanatical users like Harry Nelson."

Dieter Fuss attributed Lab computing successes to "a willingness to collaborate with industry."

Fletcher detailed how the Laboratory pioneered network computing and credited Engineering's Dave Pehrson with playing a key role in early network system efforts, notably Octopus. "Livermore developed interactive computer networks," he said. "The idea was to make computers easier to use."

In wrapping up the panel discussion, Watson noted that while the technological achievements were important "the really delightful thing about working at the Lab was the teams, the people.

"To be part of a high performance team is something special," he said, defining a high performance team as a team taking on "a challenging problem" and whose members are "committed to each other and their success."

These teams are "self-soothing," Watson said.

"There are a lot of disappointments in building new systems, so it's important to celebrate the little things as well as the big things." Addressing the retirees in attendance, Watson said, "you folks are all pioneers."

Concluding the presentation, Computation AD Dona Crawford returned to the analogy of the cathedral. She asked the retirees to stand and be recognized. "Each of you has contributed to the cathedral that is Lawrence Livermore National Laboratory's computing infrastructure and culture."

'Cheerio' to Jeff Wadsworth

PHOTOS BY
FRANK NUNEZ/TID

Employees attended a farewell party last week to wish Deputy Director Jeff Wadsworth well. Wadsworth left the Lab to join Battelle Corp. At right, Wadsworth chats with George Sakaldasis and David Dearborn.





CLASSIFIED ADS

See complete classified ad listings at
<https://www-ais.llnl.gov/newsline/ads/>

AUTOMOBILES

2002 - Honda Odyssey EX-L, mint condition, 7,000 miles, loaded, \$28,500. 925-447-4249

1999 - Dodge Durango SLT Ex.Condition Fully loaded, Alloy wheels, tow package, roof rack, 52,712 miles, \$19,500 OBO 925-443-0749

1995 - Toyota Corolla 4Door excellent condition, A/C, AT, AM/FM Cassete, 85k miles, \$5100 925-243-1792

1974 - Karmen Ghia body, chassis and misc. parts free to good home, you haul. 925-447-4345

1978 - Ford LTD II Brougham, exclnt cond, automatic, power windows/seat, garage-kept, 81k miles, original owner, well-maintained, \$1,200 obo. 510-651-8632

1991 - Toyota Tercel, 123K miles, 4 spd., new tires, very dependable, 39 MPG hwy, \$2,035. 510-538-2242

1998 - C280 Mercedes Benz Sport Package. Immaculate condition. Low miles, CD Stacker, Sunroof, power windows, locks, & seats, custom rims - loaded. \$27K. 209-952-0877

1994 - HONDA Civic LX, 125kmi, white, AC, AM/FM/cassette, CC, power locks, excellent, well maintained - great car, but bought a 4Runner. Asking \$5,900. 925-846-1459

2000 - Ford Econolin, 39K miles,silver,automatic. Asking \$11,000/obo, call any time 925-788-6807

1995 - GMC Safari Van,Extended,8 Pass,AWD,Great for Skiing!Loaded,SLT trim, new tires, brakes, tuneup,123k miles,high book \$10,600,\$7900/B.O. 209-599-4644

1992 - AUDI 100 Luxury Sedan - automatic, a/c, power windows/doors, new tires and brakes. 129k miles, Excellent condition, \$6,000.00 OBO 209-667-1039

1971 - 1971 Torino 500. Very STOCK 4 door torino, 101k miles. Excellent condition. Has 351 cleveland 2 bbl, posi, A/C, C-4 trans. \$2500 209-368-2886

1990 - Mercury Sable, 3.8LV6, 96K mi, all pwr, cruise ctrl, stereo, air bag, new tires, good cond, moving OS, \$2200 OBO. 925-455-5837

1990 - Plymouth Grand Voyager LE, 140K miles, V6, seats 7, rebuilt trans., P/S, P/W, P/DL, needs some work. \$1199 OBO 925-606-1637

1997 - Saturn SL2, 4 door,Hunter Green, leather seats,automatic, AC, moonroof, spoiler,power windows/locks, remote entry, cruise control \$7,000 925-606-1972

1991 - Nissan Sentra SER rebuilt tran, 2 L engine, fast car, needs final drive. Must sell \$1000 OBO. 925-455-1820

1992 - Honda Accord EX, 4dr, std trans, fully loaded, new tires & chains, 2003 reg., good condition, \$4000 510-783-1145

1999 - Chevrolet Blazer 4WD, LS 4 door, power locks, windows, cc, CD, 95,500 highway miles, \$12,500 or bo. 209-825-5687

2001 - Honda Accord EX 4 door, Blue, 27k miles, 5 speed manual, loaded, great condition. 925-200-9324

1989 - Saab 9000 - 4 door, auto, 16V 4 cyl, sun roof, leather int, High mileage, runs ok. \$1250 or b/o, Steve 209-236-1691

1969 - Ford Mustang Convertible. Original 302ci motor, 3 speed manual,very clean, still needs some work. \$8,500 OBO 209-996-6902

1994 - Dodge Gr. Caravan, 3.8L, 130k, new tranny, capt chrs, CD chgr. 925-454-8486

1999 - Jeep Cherokee laredo 4X4 White AT,AC,PV,PL,PM,CC,AM/FM Cassett STEREO,TILT WHEEL,Excellent Condition!! 99k,\$5200 OBO lab 2-7090/ 925-376-0316

1997 - Jeep Wrangler Sport, 4.0L, A/T, Soft top, 2 inch Lift, 31 inch MT tires, Custom Bumpers, Rack, Rock Rails, 74K miles, much more, 13,000 or B.O. 209-869-0667

1997 - Honda Accord Special Edition, 2 Door, Sun Roof, AC, PW, PL, PS, AT, 83K \$9800 OBO 209-480-3279

1990 - M-30 Infinite, 2dr, 195K, good condition, auto, ac, new brakes, new CD player-radio, no accidents, all records, runs great, \$2600 OBO 925-245-1414

AUTOMOBILE ACCESSORIES

Auto service manuals: GM mid-size fwd. 82-93; Honda Accord 76-83; Chrysler fwd. 81-92; Honda Civic, Accord & Prelude 73-81 \$5/ea. 925-455-0577

1998 Nissan Altima, black, sunroof,spoiler, automatic, 47K miles. Asking for \$6500 OBO. Call any time 925-788-6807

Tires for truck or SUV P265/75R16 Cooper Discover AT. Great cond!, can send pics, 75.00 (all four) 209-607-1352

72 Duster shell. I have a duster that was stripped bare for a drag project and would like to sell it rather than cut it up. \$200 ALLEN 209-368-4286

Bed Liner from 2002 Chevy. Full size 8 ft bed. FACTORY NEW! \$90 OBO 925-443-2743

Rack for small foreign pickup--sturdy, made of pipe, extends over cab. Call for dimensions. \$75. 925-625-5938

American Eagle 6 spoke 17in alloy rims, Khumo 205/40/17 tires. 1000 miles wear 4x100 and 4x114.3 bolt patterns \$800 OBO 925-455-1820

Side running boards from white 1996 explorer. great condition. \$75. Call 3-8304. 925-455-5284

BICYCLES

Ladies Brand new Bike \$80.Ikea 6 drawer Chest (almost new) \$100. Call Eves: 925-828-6568

Boys Mountain Bike- 20 Inch, 6 Speed, Very Good Condition, \$35.00 925-443-8886

ELECTRONIC EQUIPMENT

Electric typewriter --Olympia Report Deluxe-- with carrying case. \$25. 925-454-8827 925-454-8827

27 in, Panasonic stereo TV, CC, vchip, multilingual, \$150. Philips HiFi VCR, 4-head, \$35, or set \$170, both 2.5 yrs, excel cond, moving OS. 925-455-5837

Typewriters, Port Elec w/cases \$25ea - SCM Coronet12 Pica ManRet (BI/Rd Nylon); SCM Super12 Elite (Film); Olivetti Lexikon83DL Typeball (Nylon) 925-455-6089

Intel PII 350mhz, 128mbRam, 6.4gb+10.2gb HardDrive, Modem 56kbps, all top notch parts, Windows98s.e, MSoffice2000+, Have monitor if needed. Call! 925-454-3213

IMac OS8.1, Super Disk 120 MB, Power PC G3 processor,built in memory 512K Turquoise \$450 925-606-5302

CD-R/RW burner (HP M820e), only 5.5x6.5x1 inches. Includes SCSI PC Card & cable for laptops, software, Win98/2k/XP drivers. \$115 after 5pm 925-447-6450

HP LaserJet 6L w/ HP Companion (i.e. feed thru scanner), cables and s/w incl. \$100. 925-454-8486

Sharp Pentium laptop, Win98, MSWord. \$300. Also HP Desktop with monitor \$275. Great for college sturdents 925-292-7799

GIVEAWAY

1974 Karmen Ghia body, chassis and misc. parts free to good home, you haul. 925-447-4345

Free: small river rocks. U-haul. About 6 yards worth. 925-447-3053

Amana refrigerator 15 yrs old. Looks & runs good. Free. 925-447-6728

HOUSEHOLD

Wool persian area rug 9x14. Has a few acrylic paint stains. \$40 510-530-1884

Double bed frame,Oak headboard 38 inches, side rails and footboard. Needs refinish. \$20 209-599-6937

Sofa, cherry wood arms and sides, used 6 months, excellent condition, paid \$800, asking \$150 OBO 925-443-5044

Glass dining room table with brass base and 6 upholstered chairs. Excellent condition. \$500 or best offer. 408-391-0206

Washer/Dryer, full size ,Stackable,Large cap. 3 years old.Kenmore. Exc.cond. \$500.00 call eves,lv.msg. 209-835-8363

Oblong oak table (42 x 60 inches) with

removable 18 inch leave and four chairs. Honey color with center stand. \$150 OBO 925-371-4479

Lazy Boy Lift Chair - eletronic. Cost \$1,400 sales slip. Excellent condition, used only 2 months. Will sacrafice \$700 925-846-9009

Oak Computer desk/cart on casters w/pull out keyboard/printer shelves paid \$175 sell for \$120 925-447-8613

Black and grey office desk. Two files drawers on one side, two regular drawers on the other. Good condition. Asking \$100. Call after 4:30. 925-426-4700

Queen-sized comforter sets (with shams/bedskirt). Three available/Excellent condition: white eyelet, yellow floral, blue angels. \$50.00 each. 925-455-5245

Garage sale-sat 8/17-8-2.cochran drive,tracy (crossroads and 11th).many household and misc.some furniture. 209-830-0684

Microwave, Emerson 1000W, \$40. Vacuum, Eureka, 12amp, \$35, obo, both 2.5yrs, excel cond, moving OS. 925-455-5837

Exercise machine w/weights \$100. Blue Crushed Velvet Sofa \$50.2Lamps \$45 for both. Eureka Vac. Cleaner \$25. Call Eves: 925-828-6568

Pine twin bunkbed with full futon. matter-ess, beddings included and two shelf cabinet with 3-drawer on side. all \$450.00 3-yrs. old good condition. 209-823-5126

Desk - walnut veneer, 4 drawer, good condition. Fitted glass on desktop. \$125 209-839-2266

Sears Refrigerator, Custom Made Sofa Floral Pattern, Lazy Boy Rocker Recliner, 2 Murray Bicycles.\$200.00 OBO 209-862-2355

Office Desk, old fashion (5 drawers/1 file), steel with wooden top, standard size, excel condition. \$75/BO. 925-838-7021

LOST & FOUND

Mountain Bike missing from outside B132N. Black Agressor with front shocks. Please return to B132N or call me. 925-449-8783

MISCELLANEOUS

PASHMINAS, Various colors, Never been worn, Great for winter. MUST SELL, Paid \$375. want \$150. OBO. 530-305-7090

Generator, Generac 5000w, very good condition \$375 209-599-6937

Pine, solid-wood, 4 drawer dresser, cherry finish, \$200. 925-447-0430

GYMBOREE girls clothes in sizes from newborn through 9 months: 12 pcs. for \$30. Many other baby items and maternity clothes available. Call for info. 925-454-8827

Painting (framed) by local artist Norma Webb, Collier Canyon Scene w/hills and barn 32x44 \$150 925-447-8613

Evenflo Trailblazer Child Carrier excellent condition (\$100 new) \$75 OBO. Girl baby clothes 0-18months. Crib and mattress excellent condition \$100. 925-606-0755

1997 Honda CRV, red color,automatic,4WDR, \$7800 OBO. Call any time 925-788-6807

Donated medical supplies and equipment will be sent to Red Cross hospitals in Torreon,Mexico. Tax receipt available. 925-447-7394

Computer Cart, white washed solid oak, CPU storage, glide out printer tray, keyboard tray w/ built in wrist rests. Excellent Condition \$45. 209-833-9141

New 36 inch wide door. prehung. etched with hummingbird and rose pattern. frosted edge. \$300 o.b.o. 925-243-0366

Aluminum Chain Saw Driven Winch. Use a small chain saw motor to assist this windlass device. \$150 OBO 295-443-2743

Beautiful solid oak California King Canopy Bed Frame. Lots of oak! Only \$300.00 925-449-4887

Home daycare closing everything must go! saturday august 24th 8am-1pm 5632 charlotte way. livermore. plenty of strollers, playpens, toys, etc. 925-371-0620

Garage Sale, Sat Aug 17 8am-2pm, 764 South K St. Livermore: Drill Press, Misc hand tools: Roll top desk, Toys, 3 families 925-449-1524

MOTORCYCLES

1996 - Harley Davidson FLHT, Electra Glide Standard, Vivid Black, 12k miles, \$14,500 OBO 209-838-1490

1981 - Honda 400 Custom, parting out many new parts. \$450 firm. 925-243-0366

1989 - Yamaha FZR600, 9000 miles, ducati yellow, Great shape, like new. New tires. \$3000. 209-662-0640

MUSIC INSTRUMENTS

Wurlitzer low-boy upright piano,good sound, great for student, very reasonable 925-449-1524

PETS & SUPPLIES

Riding Boots - English, Ladies, Size 8, tall, black. Cavallo - like new; used 3 times. Good for training or show. \$150.00 925-560-9657

Brand new Dog CRATE/KENNEL. New one costs \$150, will sell for \$75 or best offer. 925-580-4030

Free to GOOD home (\$65 AKC xfr). Female, Brindle Akita, Champion lines, AKC, Show Quality 1 year old. 209-629-3630

Kittens 8 wks must go to indoor only home no other cats. Shots and fixed. Call for pictures must see! 510-339-7104

Half Pixie-bob kittens, 2 female and 4 male. Includes first shots and exam. Good with children. Ready in four to six weeks. \$150-\$200 ea. 209-835-4281

Hot Walker for four horses. Profesionally built,used at the track, good condition, needs new electric motor, \$450 209-847-1231

Floppy-eared bunny needs good home. Female, 1 yr old. Good with kids. We are moving 925-243-0599

PET SITTER Aug 22-26. Resp. person to feed, play with and exercise precious 6 mos Springer Spaniel Pup at our Livermore home. References please. 925-443-8132

RECREATION EQUIPMENT

RollerBlades and Pads, BRAND NEW, worn 1 time. Size 8, paid \$119. want \$75. OBO 530-305-7090

BABY JOGGER II jogging stroller in excellent condition. Includes sun canopy. \$99. 925-454-8827

Snowboard Lamar 163 cm. with bindings. \$150.00. 209-599-4644

Scuba Tanks: Dbl-50s set and a 72 tank. Need hydrostating. Make offer. 925-373-0795

Onan 1400 watt generator. Near new condition. \$375 OBO 925-443-2743

Wanted a two person canoe to buy, rent or borrow to use to explore Delta waters 209-835-4519

Scuba Gear, all gear including tank, hardly used. All must go. Call for details. 925-443-5044

RIDESHARING

Express your commute, call 2-RIDE for more information or visit <http://www-r.llnl.gov/tsmp>

Concord - Drive 1 day/wk + 1 day/mo, any day. Relax the rest of the time! Save money & stress. Good carpool! 925-672-6677, ext. 3-2153

Modesto - Luxury vanpool. 8 - 4:30 schedule. Ride or help drive one day/week and save more. \$113/mo. 209-521-9047, ext. 2-5177

Walnut Creek - Concord, Pleasant Hill new luxury vanpool has openings. Lab hours 8:00 to 4:45. 925-945-4926, ext. 2-2805

SERVICES

Day care/housekeeping service. Will come to your home in Livermore area. Good references. 209-531-1527

Pet/house sitter-Responsible, trustworthy, experienced. Available in Tri-Valley area. 925-606-0693

House Painting - Over 16 yrs experience. Call for free estimate. 209-956-3718

SHARED HOUSING

Livermore - - Available 9/1, share 4 bedroom house. 1.5 miles to LLNL. Month to month or long term rates available. Friendly housemates. 925-216-7286

Livermore - - room for rent in a 3 bedroom home close to LLNL, N/P N/S. For more information call 925-371-0911

Livermore - 4bd/2bth home w/ one other, 2 mi llnl, master/pvt bth or 2 bdrs/pvt bth, \$650 925-373-6211

Livermore - Shared housing in two bedroom apartment available 10-01. \$600 per month, partial furnishing, no pets. 925-456-3418

Livermore - Furnished room w/own bath. Full house priv.N/S N/P 4 mi fm Lab \$600 inc util 925-449-8034

Livermore - Room/shared bath \$550. Master bedroom w/private bath \$750. Available Aug 15. All privs, share utilities, deposit. 925-784-5761

North Modesto - Room for rent in house with pool, \$500 month, includes utilities. 209-534-0304

TRUCKS & TRAILERS

1971 - GMC 1 ton longhorn. Rare truck 95% original. Big block 400. Almost show room condition. Call for details. \$12K 925-447-6728

1987 - Ford F-250, XLT 123k miles. 460 CID/4 WD. Excellent throughout except cab could use paint. Asking \$4200 OBO 925-443-2743

1998 - Dodge Ram 2500 bed liner in great condition. \$100 obo. 925-625-5938

91 - Mazda, King cab b2600i, w/camper shell, liner, 5 speed, real good cond. gd work truck, 153k miles. lots of new eng. parts. It. blue. \$2500. 209-835-9082

1997 - Stock Rims & Tires for 2WD Nissan Hardbody P/U. Less Than 500 Miles. Good as New! Make an Offer. 510-742-5556

2000 - Nissan Frontier King Cab, Pwr Windows, Locks, Cruise, Manual transmission, Alloys, 4Cyl, 80K freeway miles, Sliding rear window, Garaged, 11.5k OBO 925-745-7250

1979 - Ford Bronco, -5K on rebuilt engine (351M). Runs good. \$3,500.00 or best offer. Call JR after 3pm. 925-447-1126

VACATION RENTALS

SOUTH LAKE TAHOE - 3 Bedroom 2 bath Chalet, newly remodeled,nicely furnished, all amenities.Park w/Lake,playground, etc. Great for Families! Hurry for Summer! 209-599-4644

Pinecrest - (Off Sonora Pass Road), 3 bdrm/2 bath, frplc w/wood, microwave, dishwasher, pool table, large deck and view up No. Fork of Tuolumne, \$195/wknd. 925-449-5513

Puerto Vallarta-Oceanfront 2BD/2BA condo, all amenities, beautiful views of the Pacific with two oceanaside pools. Jan 2 - Jan 9, 2003. \$700 209-545-1308

Kailua-Kona, HI - 2bdrm, 2Ba Condo on alii Dr. New unit, air cond. nicely furnished. distant ocean view. \$1800/month until December. 925-833-6061

WANTED

House sitting position wanted: Responsible school teacher/administrator on leave from New Zealand assignment for one year starting June 2003 925-447-0411

Oleander Bushes, 1 gal. Need 10-20 ea. Reasonable price \$\$\$ 209-835-9082

Job opening for an entry level carpet cleaner for local Livermore business. Will provide training. Part time to full time hours. 925-245-0911

Stroller/car seat combo for baby who is 20 pounds or more. 925-625-5938

Wanted--Full size violin for grade school student. Will buy, or rent for this school year. 925-243-1203

Tickets to 49/Raider preseason game 8/24/01. 209-823-5085

I am looking for wood shafted old golf clubs to be used as decoration in my den. must be reasonably priced. call and leave message. 209-835-5495

WANTED: Drafting equipment for use in preparing house plans. 925-606-0234

Due to space limitations, *Newsline* may withhold ads that have already run. They will still appear on the Web.

NEWS OF NOTE



Banner turnout for student poster symposium

By Stephanie Esposito

NEWSLINE STAFF WRITER

The crowd of Lab employees and summer students jammed into the West Cafeteria last Thursday afternoon was an obvious sign that this year's student poster symposium was a success.

The symposium, now in its third year, attracted 70 participants, compared to 30 students last year and 20 students the year before that, according to Barry Goldman of the Science & Technology Education Program (STEP).

"I think one reason that it's grown so much this year is because managers and supervisors are really encouraging their students to participate," Goldman said. "It's a way to communicate what each program is doing through their summer students."

Goldman said each year the STEP program and the Lab tries to improve on the professionalism of the individual posters and the symposium event. For example, this year, student posters could only be displayed horizontally and specific program posters were grouped together, as they would be at a symposium for professional scientists and researchers.

Also new this year was the presence of recruiters from UC Davis and Advanced Simulation and Computing (ASCI) Alliance universities.

James Turan, a recruiter from the University of Chicago, saw the symposium as "an opportunity to see what is being done at the Lab and to talk to young students who are doing interesting physics work."

However, physics wasn't the only program



BARRY GOLDMAN/STEP

Hal Graboske, acting deputy director for Science & Technology, chats with UC Berkeley student Jason Wickersham at the annual poster session held last week. More than 70 students participated in the symposium.

represented at the symposium. In all, there were students representing six different LLNL directorates: Biology & Biotechnology Research Program, Chemistry and Materials Science, Computation, Engineering, Energy & Environment and Physics & Applied Technologies.

Hal Graboske, acting deputy director for Science and Technology, said he was impressed by the students' science and technology

posters.

"The quality of the students, the quality of the Lab scientists and engineers who were mentoring them and the quality of the work were all first rate," Graboske said. "It looked just like a national professional society poster session."

After the symposium, UC Davis representatives set up a brief info session for student participants. ASCI Alliance representatives held their info session the following morning in order to discuss what programs each school focuses on and what type of student they are looking at for graduate school.

"Hopefully, the students will take their poster projects back to their colleges and maybe seeing the work they got to do will create some interest for other students to apply and come out to work at the Lab," Goldman said.

He encouraged students, as they end their assignments and begin returning to school, to submit an electronic portfolio through the Website, <http://education.llnl.gov/portfolio/> where future summer candidates can look at past student assignments and accomplishments when considering LLNL for summer employment. In addition, those students who participated in the poster symposium will have their poster linked to their electronic portfolio.

Lab researchers recruiting students for next summer will also be able to show the student portfolio Web site and the electronic bulletin board at <http://education.llnl.gov/sbb> to prospective student hires.

Goldman said several LLNL interns mentioned that having such information available on the Web made it easier to decide to spend a summer at the Lab.

For more information on the Lab's summer student employment program, contact Barry Goldman, 2-5761 or goldman1@llnl.gov, or Don Correll, 2-6784, or correll1@llnl.gov.

Five ASCI Alliance universities recruit Laboratory summer students

By Elizabeth Campos Rajs

NEWSLINE STAFF WRITER

Representatives from the five ASCI Alliance partner universities — Caltech, Stanford, University of Chicago, University of Utah and University of Illinois — visited the Lab last Thursday for the student poster session and held an informational meeting the next morning for interested students.

"The visit was very worthwhile. The students were very interested and a few introduced themselves to me later on and we discussed opportunities at Caltech," said Dan Meiron, a professor of applied and computational mathematics and computer science at Caltech. He is also the principal investigator for Caltech's ASCI Alliance Center. "I think it was useful for them but also it was extremely useful for me in that it helps us identify promising grad students. It should definitely be repeated."

The Academic Strategic Alliance Program was formed to engage the U.S. academic com-

munity in advancing science-based modeling and simulation technologies important to Advanced Simulation and Computing (ASCI). The participating universities are developing new computational frameworks as they make advances in several scientific areas, such as material sciences, fluid dynamics, turbulence, solid mechanics and radiation physics.

All five universities are designated Centers of Excellence and were chosen competitively from nearly 50 proposals. The centers are: Caltech, Center for Simulating the Dynamic Response of Materials; Stanford, Center for Integrated Turbulence Simulation; University of Chicago, Center for Astrophysics Flash Phenomena; University of Illinois, Center for Simulation of Advanced Rockets; and University of Utah, Center for Simulation of Accident and Fire Environments. Each center has a five-year funding commitment and supports approximately 70 people each year.

"We are working to integrate our education programs and our university collabora-

tions to provide a recruiting pipeline of sharp, energetic staff into the Lab. Combining a visit by our ASCI partners with our summer students poster session was a terrific way to do that," said Laura Gilliom, director of the Lab's University Relations Program.

As Goldman was planning this summer's student poster session, he sent invitations to the five ASCI Alliance Centers of Excellence and was pleased four of the universities were able to send representatives to meet with the students. The University of Utah was represented by postdoc Kurt Glaesemann, who worked as a postdoc there in the ASCI Alliance program prior to joining the Lab two years ago.

"The students seemed interested in the presentation. It held their attention," said Glaesemann, who added that several students chatted with him about the University of Utah. He talked to one graduate student who was particularly interested in his postdoc experience at the University of Utah.



THE BACK PAGE

CHU

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Mountain Project. Applying the principle of “defense in depth,” the repository will incorporate multiple protective barriers, which will include both natural barriers and an engineered barrier system.

Jeff Williams, director of the DOE’s Office of Systems Engineering & International Division, accompanied Chu in her visit.

Chu, who was sworn into office in March, gave a talk on the vision and future direction of the Yucca Mountain Project and her office’s role in it. That overview included a proposal for a science and technology program.

Lab researchers briefed Chu on several aspects of the project, including the materials sciences and corrosion tests for



DON JOHNSTON/NEWSLINE

Energy & Environment AD C.K. Chou, left, and Lab Executive Officer Ron Cochran, right, hosted DOE’s Margaret Chu earlier this week.

the waste package, the long term thermal effects of placing waste at the site and thermal analysis of

design and operations.

Chu then toured several of the Yucca Mountain Project laboratories including the waste package environment evolution characteristic lab and the material sciences corrosion testing units.

Chu has more than 20 years experience at Sandia National Laboratories that spans from research and development to program management. Her technical expertise ranges from nuclear waste management, nuclear reactors, energy policies, nuclear materials management, nuclear non-proliferation issues, environmental remediation and technology development.

Prior to her current appointment, she served as director of the Nuclear Waste Management Programs Center under the Energy and Information Infrastructure Surety Program at Sandia.

CARGO

Continued from page 1

cies to detect nuclear materials.

“Our aim is to evaluate the various types of equipment that could be used for monitoring air, ocean and intermodal cargo containers for nuclear materials,” said Bill Dunlop, leader of the Lab’s Proliferation Prevention and Arms Control Program. (Intermodal cargo containers are containers that can travel by ship, rail and truck.)

Among the participants in the evaluation project were personnel from the U.S. Coast Guard and the U.S. Immigration and Naturalization Service.

Information about the performance and capabilities of the detection instruments for seeking out nuclear materials will be furnished to different government agencies.

“One of our areas of expertise is understanding what goes into a nuclear weapon, so we know how to test equipment to find the materials for which we’re searching,” Dunlop said.

Laboratory researchers have experience in

designing and testing nuclear weapons and have assessed possible improvised nuclear devices as part of the Laboratory’s nonproliferation programs, according to Dunlop. These capabilities are bolstered by the Laboratory’s expertise in trace element detection.

The work by Laboratory researchers to evaluate radiation detection instruments is being performed as part of a request to the NNSA.

As part of the larger NNSA project, Livermore and other researchers will also develop new and enhanced detection systems, and will train personnel in the use of detection technology.

During tests of the radiation detection instruments, Lab researchers placed small amounts of nuclear materials amidst other goods that might be shipped inside cargo containers.

Among the radiation sources used in the testing were plutonium, enriched uranium, cesium 137, barium 133, phosphorus 32 and combinations of these sources.

Part of the research still to be performed will include a system study to determine the best locations to place radiation detection instrumentation,

Dunlop said.

One of the new radiation detection instruments on the way was developed — and announced earlier this year — by researchers from LLNL and Lawrence Berkeley National Laboratory.

Their instrument, called the Cryo3, is a mobile, handheld mechanically cooled germanium radiation spectrometer that detects gamma-rays from radioactive materials.

Previously, high-resolution germanium detectors had to be cooled using liquid nitrogen. The Cryo3, however, is cooled mechanically by a low-power, compact micro cryocooler, attaining the desired high-energy resolution without the need for liquid nitrogen.

In a new project started in May, a multi-disciplinary team of Livermore researchers is looking at ways to “actively interrogate” materials inside cargo containers to evaluate the materials, Dunlop said.

“We are studying the use of neutrons to impinge on the cargo containers and look for key signatures as a result of the neutrons interacting with nuclear and/or chemical materials inside the container,” Dunlop said.

GRABOSKE

Continued from page 1

Graboske joined the Lab’s Physics Directorate in 1966 in a post-doctoral appointment. He has been a division leader in several Physics divisions, served as principal deputy associate director for Physical Sciences Directorate, acting associate director for Physical Sciences, and served as principal deputy associate director for Physics and Space Technology Directorate. Most recently, Graboske was the associate director for Chemistry and Materials Science for the period 1997 to July 2002.

For the past month, Hal has been a special assistant to the director, providing consultation and

advice on the Lab’s science and technology programs.

Graboske received his bachelor’s degree in humanities and science in 1958 from the Massachusetts Institute of Technology. He received a master’s degree in physics in 1962, a master’s in astronomy in 1964, and his Ph.D. in astronomy in 1966, all from the University of Michigan.

“Hal is an outstanding physicist who has made major contributions in astrophysics, in the statistical mechanics of dense plasmas and in weapons physics,” Anastasio said. “He has been one of the Laboratory’s most influential and successful managers and has been a member of many important institutional committees.

“I appreciate Hal’s willingness to delay his

retirement to help me during these next months while I formalize the structure of my senior management team.”



Pedestrian drop-off area now closed

The turn-out area for pedestrian drop-off and pick-up on the north side of Westgate Drive (across the street from the Badge Office), near the security post, has been closed.

Barriers now block vehicle access into the turn-out. Signs re-direct drivers to drop-off or pick-up passengers in the Westgate

Badge Office parking lot.

The north side turn-out will reopen once a construction project is completed to realign the Westgate Drive gate opening, the street and the sidewalk. As a matter of safety, Protective Force Division asks your cooperation in keeping the turn-out area clear of vehicles and pedestrians in the interim.

Newsline
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